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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/715,462

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Kang Soo Seo

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EXAMINER

SHIBRU, HELEN

ART UNIT

PAPER NUMBER

2621

MAIL DATE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/715,462	<b>Applicant(s)</b> SEO ET AL.	
	<b>Examiner</b> HELEN SHIBRU	<b>Art Unit</b> 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 06 July 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1, 15-17, 19-22, 27, 28 and 30-37 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 15-17, 19-22, 27, 28 and 30-37 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>08/26/09, 07/21/09, 07/06/09</u>                              | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/06/2009 has been entered.

***Response to Amendment***

2. The amendments, filed 07/06/2009, have been entered and made of record. Claims 1, 15-17, 19-22, 27-28, and 30-37 are now pending.

***Response to Arguments***

3. Applicant's arguments with respect to claims 1, 15-17, 19-22, 27-28, and 30-37 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1, 19-22 and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato (US PG PUB 2002/0145702 A1) in view of De Haan (US PG PUB 20090180757) and further in view of deCarmo (US Pat. No. 6, 643, 450) and Hamada (US PG PUB 2008/0253742).

Regarding claim 1, Kato discloses a computer readable medium storing a data structure for managing reproduction of at least video and audio data performed by a reproduction device comprising: a data area storing a stream file including at least one of video and audio data (see figure 14 M2TS); and a clip information area storing a clip information file (see figure 14 CLIPINF), including timing information of the at least one of video and audio data (see paragraphs 0167, 0199 and 0267); the timing information including an entry point map mapping presentation time stamps to source packet addresses of the at least one of video and audio data (data address being paired to the PTS see paragraphs 0195 and 0345, see also paragraph 0167 and figures 33-34) a playlist area storing a playlist file including at least one playitem (see figure 14, PLAYLIST), identifying a pair of in-point and out-point pointing to the presentation time stamps (see figures 3, 6A-6B, and figure 7) in a clip of the at least one of video data and audio data (see paragraphs 0168, and 0268-0274); a navigation area storing at least one navigation file (see fig. 28 and paragraphs 0226, 0234, and figures 6, 9, and 14); and the stream file, the clip information file, and the playlist file, are separate from each other (see figure 14 where it shows the PLAYLIST, the CLIPINF, and M2TS are recorded separately).

Claim 1 differs from Kato in that the claim further requires the navigation file including a path item, the path item including a first navigation command for launching the playlist file and a second navigation command for proceeding to a next path item.

In the same field of endeavor De Haan teaches a navigation area storing at least one navigation file including a path item, the path item including a first navigation command for launching the playlist file (see paragraphs 0045, 0064 and 0083, 0103-0104, pre-command calling title menu, and playlists are accessible via the title menu), and a second navigation

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command (post command) for proceeding to a next path item (see table 2 and paragraph 0079). Therefore in light of the teaching in De Haan it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kato by providing a PGC with pre and post command in order to arrange video object on a disc.

Claim 1 further differs from the above combination in that the claim further requires the path item providing parental control information for the at least one of video and audio data.

In the same field of endeavor deCarmo teaches PGC (path item) providing parental control information (see figure 5 unit 514, for example and col. 2 lines 24-38 and col. 7 line 51-col. 8 line 10). Therefore in light of the teaching in deCarmo it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above proposed combinations by including a path item that provide parental control information in order to allow user interactivity via an on-screen display tool.

Claim 1 further differs from Kato and Hamasaka in that the claim further requires the stream files, the clip information file, the playlist file and the navigation file are separate and have different extensions from each other.

In the same field of endeavor Hamada teaches the stream files (AV stream with extension mpg), the clip information file CLIPINF with extension clpi), the playlist file (PLAYLIST with extension plst) and the navigation file (info with extension dvr) are separate and have different extensions from each other (see figure 5). Therefore in light of the teaching in Hamada it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the above proposed combination by separating the files in order to control or have access to each file individually.

Claim 19 is rejected for the same reason as discussed in claim 1 above.

Claim 20 is rejected for the same reason as discussed in claim 1 above. See also claims 10 and 12 of Kato.

Regarding claim 21, the limitation of claim 21 can be found in claim 1 above. Therefore claim 21 is analyzed and rejected for the same reasons as discussed in claim 1 above. See also claim 6 of Hamada and paragraphs 0305 and 0493 of Kato.

Regarding claim 22, the limitation of claim 22 can be found in claims 1, 20 and 21 above. Therefore claim 22 is analyzed and rejected for the same reasons as discussed in claims 1, 20 and 21.

Regarding claim 27, deCarmo discloses an interface unit configures to communicate with the controller to select one of the different parental control reproduction paths (see col. 7 line 48-col. 8 line 10).

Regarding claim 28, deCarmo discloses wherein the interface unit receives user input on the different parental control reproduction paths, and the controller controls the reproduction of the at least on of video and audio data based on the user input (see col. 8 lines 15-40).

6. Claims 15-17 and 30-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kato (US PG PUB 2002/0145702 A1) in view of De Haan (US PG PUB 20090180757) and further in view of deCarmo (US Pat. No. 6, 643, 450), Hamada (US PG PUB 2008/0253742) and Nakatani et al. (US PG PUB 2002/0114614).

Regarding claim 15, although the combinations of Kato, De Haan, decarmo and Hamada teaches the claim limitation of claim 1, the applied prior arts fails to teach the path item includes a length indicator indicating a length of the path item.

However, in the same filed of endeavor Nakatani teaches the path item includes a length indicator indicating a length of the path item (see paragraphs 0069 and 0075 where the prior art teaches the PGC includes length indicator). Therefore in light of the teaching in Nakatani it would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the above proposed combinations by including an indicator in order to identify the path item effectively.

Regarding claim 16, Nakatani teaches the path item further includes an attribute indicator providing an indication of at least one attribute of the path item (see paragraphs 0069 and 0075 where the prior art teaches indicators of the PGC).

Regarding claim 17, Nakatani teaches the navigation file further includes a field indicating a number of the path items in the navigation file (see paragraphs 0069 and 0075).

Claim 30 is rejected for the same reason as discussed in claim 16 above.

Claims 31, 33, 35, and 37 are rejected for the same reason as discussed in claim 17 above.

Claims 32, 34, and 36 are rejected for the same reason as discussed in claim 16 above.

### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HELEN SHIBRU whose telephone number is (571)272-7329. The examiner can normally be reached on M-F, 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THAI Q. TRAN can be reached on (571) 272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HELEN SHIBRU/  
Examiner, Art Unit 2621  
September 8, 2009

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2621